

Framing Your Thinking

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District Coordinator of Gifted
& Talented Services
Austin Public Schools



THINKING MAPS

Today's Objectives

David's presentation on Frames of Reference

Participants practice using Frames of Reference with Thinking Maps

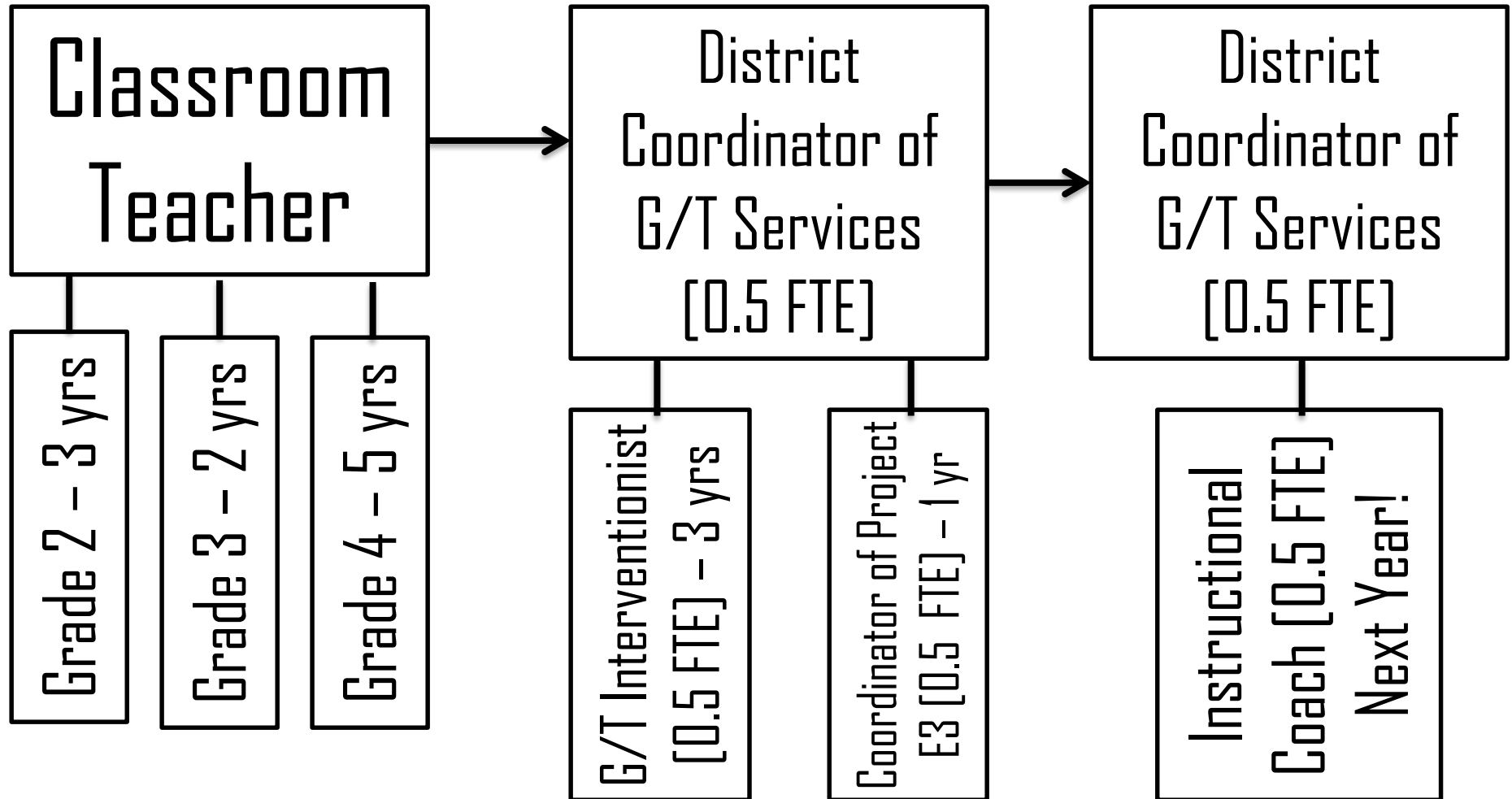
The learner will...
...use a variety of Frames of Reference to build understanding of one's metacognition
...list the different question prompts to elicit metacognition.

Participants will use Frames of Reference with students

Complexity of thinking will increase

Students critical thinking will increase

Educator for 14 years





Mentor for MN Adult
and Teen Challenge

Enjoy Running

Enjoy
Baking &
Cooking



Father to Elliot (5th)
and Chloe (1st)

Married to Melissa (RN)

David
Wolff

Serve on MEGT Board
of Directors

Serve on Math Masters of
MN Board of Directors

Leader for Children's Ministry
at Cornerstone Church

Where did you get your
Information from?

**WHY IS THIS
INFORMATION
IMPORTANT?**

How have you used
Thinking Maps in
your classroom?

What subjects
have you used
Thinking Maps
in?

Thinking
Maps

Which maps have
you used most
frequently?

Who is using
Thinking Maps in
your school?

Whose point of view
are you thinking from?

Why did I start using Thinking Maps?

I am using Thinking Maps in my classroom

How has Thinking Maps impacted student learning?

Frame of Reference

What conclusions can I make?

FRAMES OF REFERENCE

**How do you know
what you know?**

**WHY IS THIS
INFORMATION
IMPORTANT?**

Encourages metacognition
– 'thinking about your
thinking'

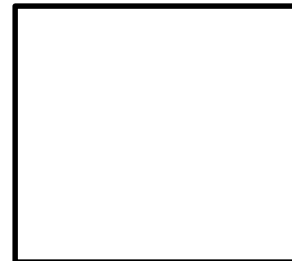
Encourages
Reflective
Thinking

Added to ANY
map

Frame of
Reference

Address guiding
questions

A box drawn around
any map



**What is
influencing the
information in
your map?**

Using Frames of References

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graph LR; A[Using Frames of References] --> B[Validates Prior Knowledge and Experiences]; A --> C[Adds credibility to your thinking]; A --> D[Encourages thinking form multiple points of view]; A --> E[Encourages Reflective Thinking];
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Validates Prior
Knowledge and
Experiences

Adds credibility to your
thinking

Encourages thinking
form multiple points of
view

Encourages Reflective
Thinking

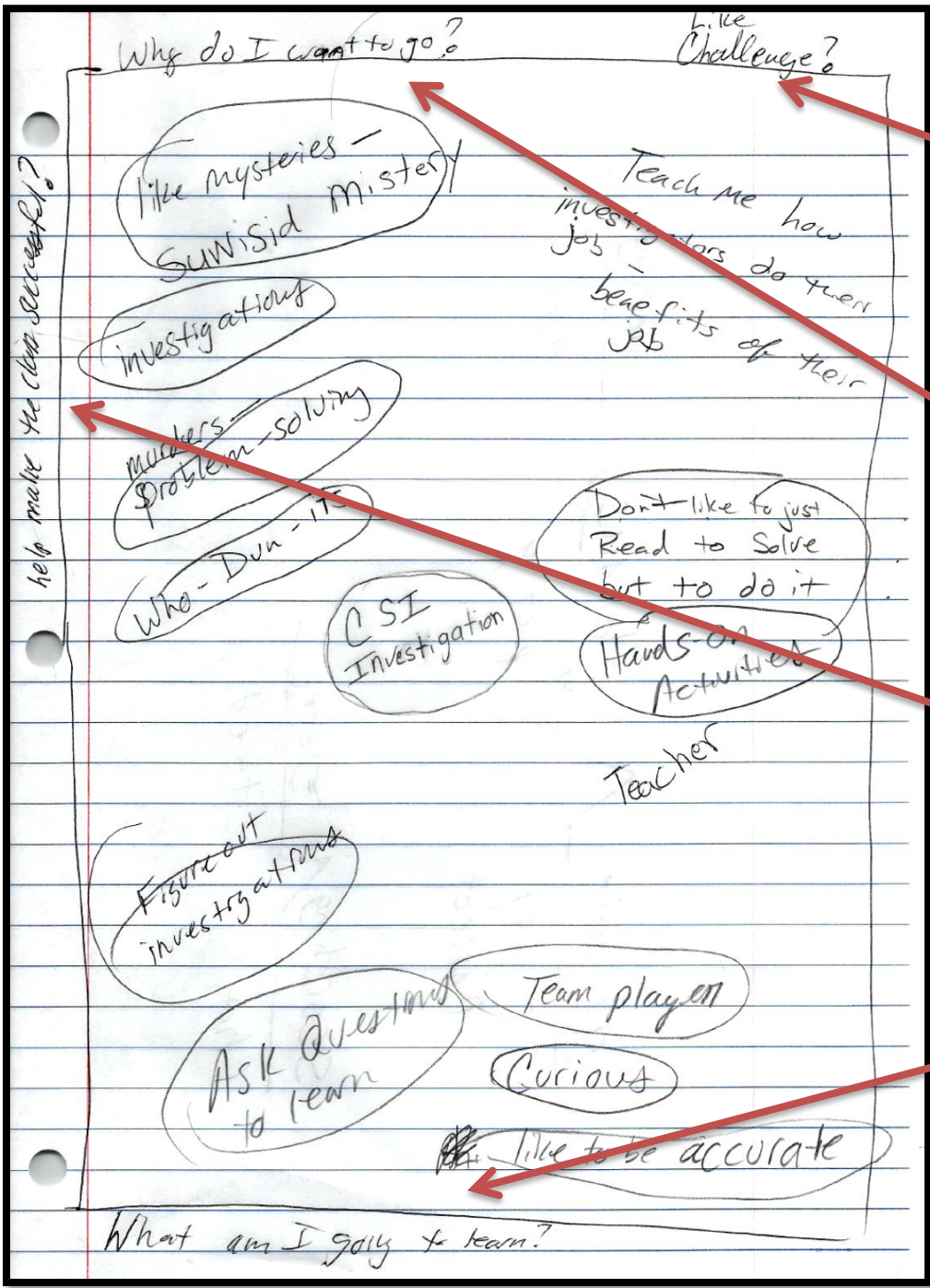
Metacognitive Frames of Reference

How do you know what you know? “Where did you get the information in your map?”		What is your perspective? “What is influencing the information in your map?”		Why is this information important? “What conclusions can you draw from your map?”	
Prior Knowledge	Specific Sources	Point of View	Other Influences	Main Idea / Theme	Reflections
Personal Experiences	Identify specific page numbers, titles, and sources Citing specific textual evidence	Your Point of View	Time Period	New understandings	Personal Importance
Prior Knowledge		Other’s Point of View	Cultures	Summary	Importance to others
Personal Connections		Bias	Religion		
		Influence from primary/secondary sources	Beliefs		

When can I ask Frames of Reference Guiding Questions?



Before	During	After
<p>Accesses Prior Knowledge</p> <p>Make Connections to what you will learn</p> <p>Pre-Assess Prior Knowledge to determine your starting point</p> <p>Start a new map with a new Point of View</p>	<p>Citing specific sources – “Where did you get that information?”</p> <p>“What other sources could we use to get more information?”</p>	<p>“How would this map look from a different Point of View?”</p> <p>Summarizing / Paraphrasing</p> <p>Reflective thinking</p>



Why do I want extra challenge?

Why do I want to go?

How will I make this class successful?

What am I going to learn from this class?

Parent @ Bank

Paying for things at store

2 Quarter = 1 1/2 Dollar

Dollar - 05 @ Bank

Math involved

some is hard

So you don't get less money

Dimes
Nickels
Pennies
1/2 Dollar
Quarters

Exchange Money

pay exact same amount
[values are same]

So you don't get ripped-off

Use Machines

Adults do it

Pound is 160% of a Dollar
Pico is 2000 = 1 dollar

Start w/ Large Bill & get smaller coins back

\$ to spend

5 \$1 = \$5

5 dimes = 1/2 Dollar coin

Buy things

Check for Cash

“Where did you get the information
in your map?”

“What evidence can you give to
support your description?”



“Why is this information important
to you? For Families?”

“Is this information bias? Whose
Point of View does it represent?”

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